

App. No. 10/012,199
Amendment

AMENDMENTS TO THE CLAIMS

1. (Cancelled).

2. (Currently amended): An on-screen-display OSD for controlling a cutoff circuit, comprising:

an OSD circuit for receiving an RGB cutoff signal parameters and generating an RGB OSD video signal;

a video mixer for receiving an RGB video signal and the RGB OSD video signal, mixing the RGB video signal and the RGB OSD video signal generating a mixed RGB cutoff signal;

a cutoff circuit coupled to a CRT receiving the mixed RGB cutoff signal to adjust the brightness level of the CRT for aging whereby the mixed RGB cutoff signal includes a brightness component to set the brightness of the CRT during aging; and

The apparatus according to claim 1, further comprising:

a variable control not coupled to the video mixer for setting a threshold brightness level of the CRT.

3. (Original): The apparatus according to claim 2, wherein the variable control comprises a variable resistor adjusted to a preset brightness level.

4. (Currently amended): The apparatus according to claim 2[[1]], further comprising:

a microcontroller device for generating said RGB cutoff signal parameters.

5. (Currently amended): An on-screen-display OSD for controlling a cutoff circuit, comprising:

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an OSD circuit for receiving an RGB cutoff signal parameters
and generating an RGB OSD video signal;

a video mixer for receiving an RGB video signal and the RGB
OSD video signal, mixing the RGB video signal and the RGB OSD
video signal generating a mixed RGB cutoff signal;

a cutoff circuit coupled to a CRT receiving the mixed RGB
cutoff signal to adjust the brightness level of the CRT for aging
whereby the mixed RGB cutoff signal includes a brightness
component to set the brightness of the CRT during aging; and

a microcontroller device for generating said RGB cutoff
signal parameters;

~~The apparatus according to claim 4, wherein said parameters~~
generated by the microcontroller including raster size, raster
shape and raster distortion.

6. (Currently amended) : The apparatus according to claim 5[[4]],
wherein the microcontroller presets the OSD device for aging.

7. (Currently amended) : An on-screen-display OSD for controlling
a cutoff circuit, comprising:

an OSD circuit for receiving an RGB cutoff signal parameters
and generating an RGB OSD video signal;

a video mixer for receiving an RGB video signal and the RGB
OSD video signal, mixing the RGB video signal and the RGB OSD
video signal generating a mixed RGB cutoff signal;

a cutoff circuit coupled to a CRT receiving the mixed RGB
cutoff signal to adjust the brightness level of the CRT for aging
whereby the mixed RGB cutoff signal includes a brightness
component to set the brightness of the CRT during aging; and

~~The apparatus according to claim 1, further comprising:~~

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a microcontroller for sending RGB parameters via a bus to the OSD device configuring the CRT during aging, wherein the RGB parameters include raster size, position and distortion.

8. (Currently amended): The apparatus according to claim 7, further comprising: [;]

the microcontroller initializing a contrast setting of the OSD circuit.

9. (Original): The apparatus of claim 7, further comprising:
the microcontroller initializing a character setting of the OSD circuit.

10. (Original): The apparatus of claim 7, further comprising:
the microcontroller initializing a position setting of the OSD circuit.

11. (Currently amended): An apparatus for controlling aging, comprising:

a microcontroller generating brightness level data to a video input signal for aging of the cathode ray tube;
a video preamplifier connected to the microcontroller receiving the brightness level data by the video input signal and mixing a host video signal to generate a video output signal wherein the brightness level of the video output signal being controlled by the microcontroller;

a cutoff control coupled to the video preamplifier receiving brightness data of the video output signal and setting a proper brightness level of a cathode; and

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a voltage control not coupled to the microcontroller preset for [[a]] an initial brightness level of the cathode during aging.

12. (Original): The apparatus according to claim 11, further comprising:

a bus connector receiving brightness data from the microcontroller and connected to at least the video preamplifier.

13. (Original): The apparatus according to claim 12, further comprising:

a drive amplifier connected to the video preamplifier to amplify the video output signal to the cathode.

14. (Original): The apparatus according to claim 11, further comprising:

the microcontroller generating a test pattern for controlling the video preamplifier wherein the test pattern setting the brightness level of the mixed output video signal

15. (Original): The apparatus according to claim 11, further including:

the microcontroller, video preamplifier, and OSD being formed on a single IC package.

16. (Original): The apparatus according to claim 13, further comprising:

a deflection device connected via the bus connector to at least the microcontroller receiving synchronized horizontal and vertical signals.

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17. (Currently amended): A method for controlling aging, comprising:

generating using a microcontroller brightness level data for aging of the cathode to a video input signal;

receiving brightness level data by a video preamplifier connected to the microcontroller and mixing a video input signal and a host video signal to generating a video output signal wherein the brightness level of the video output signal being controlled by the microcontroller;

receiving brightness data of the video output signal to a cutoff control coupled to the video preamplifier and setting a proper brightness level of a cathode; and

presetting a voltage control not coupled to the microcontroller for ([a]) an initial brightness level of the cathode during aging.

18. (Original): The method according to claim 17, further comprising:

generating a test pattern using the microcontroller for controlling the video preamplifier wherein the test pattern setting the brightness level of the mixed output video signal

19. (Original): The apparatus according to claim 17, further including:

forming on a single IC package the microcontroller, video preamplifier, and OSD.

20. (Original): An apparatus for controlling aging, comprising:

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a microcontroller means for generating brightness level data for aging of the cathode to a video input signal;

a video preamplifier means connected to the microcontroller means receiving the brightness level data by the video input signal and mixing a host video signal to generate a video output signal wherein the brightness level of the video output signal being controlled by the microcontroller means;

a cutoff control means coupled to the video preamplifier means receiving brightness data of the video output signal and setting a proper brightness level of a cathode; and

a voltage control means not coupled to the video preamplifier means preset for a an initial brightness level of the cathode during aging.